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Shionogi Seiyaku Kabushiki Kaisha

CARBOXYALKENAMIDOCEPHALOSPORINS

Inventor: Yoshio Hamashima

- Abstract - Abstract -

RB 6/18/86

An antibacterial 7beta-(carboxyalkenoyl)amino-3-cephem 4-carboxylic acid represented by the following formula:

R-C-CONH X

CR1 O N R5

R2-COOR2 COOR6

(wherein or a heterocyclic group;

R1 is hydrogen or halogen;

R<sup>2</sup> is a single bond, alkylene, or thiaalkylene;

R3 is a hydrogen atom or carboxy modifying group;

R' is hydrogen or methoxy;

 $\mathbb{R}^{5}$  is hydrogen or a 3-substituent of cephalosporins;

R6 is a hydrogen atom or carboxy modifying group; and

X is oxygen, sulfur, or sulfinyl)

a pharmaceutical composition containing the same, and a method for treating a bacterial infection with the same.

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